

CLAIMS

1. A diverter for use in multizone stimulation processes and characterised in that it comprises a ball consisting of wax with an appropriate melting point, size and specific gravity for use in the stimulation process.  
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2. A diverter as claimed in claim 1 comprising wax and an appropriate diluent.
3. A diverter as claimed in either of claim 1 or claim 2 wherein the diverter is spherical.  
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4. A method of producing a diverter suitable for use in multizone stimulation processes, the method being characterised by the features,
  - a) that the process used to produce the diverters is an injection moulding process;
  - 15 b) that the material used in the process is wax with or without any necessary diluent, of a melting point and specific gravity appropriate to the intended use; and
  - c) that the mould cavities defining the shape of the moulded products are ball-shaped.
- 20 5. A multizone stimulation process comprising the steps of:
  - a) chemically treating an area to improve the flow of oil or gas through rock strata;
  - b) sealing the chemically treated area by insertion under pressure of diverters into perforations in the wall of a well; and
  - 25 c) subsequently releasing the diverters to allow oil to flow;

characterised by the use of diverters in the form of wax (or wax-based) balls of an appropriate size, specific gravity and melting point that, on release of the sealing pressure, they melt as they are carried upwards in the oil flow.

  
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6. The invention substantially as described herein with reference to and as illustrated by any appropriate combination of the accompanying drawings.